

Integration of Equations of the Motion of an
Asymmetrical Gyroscope, by P. G. Krotova,
17 pp, UNCL.

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SSSR, No 7, 1958, pp 75-86.

ATIC F-TS-9813/III

sci - Electronics
Jul 59

91,177

(NY-5045)

Optical Study of Transverse Detonation Waves,
by B. V. Voytsekhovskiy, B. Ye. Kotov, V. V.
Mitrofanov, M. Ye. Topchiyan, 22 pp.

RUSSIAN, per, Is Sibirskogo Otdel Ak Nauk SSSR,
No 9, ~~XX~~ 1958, pp 44-50.

JPRS 7465

Sci - Phys

Feb 6a

140, 962

Hydrogenating, Isomerizing, and Cracking
Activities of Some Destructive Hydrogenation
Catalysts, by I. V. Kalechits, Lubin Chuzhen,
Chen-Dun Syui, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Sibir,
No 10, 1958, pp 3-12.

ATS-23L37R

Sci

26 May 62

Vol IV, No 8

198, 227

FORECAST OF PRECIPITATION OVER THE VIRGIN
LANDS OF WESTERN SIBERIA AND KAZAKHSTAN, BY
D. A. DROGAITSEV.

RUSSIAN, PER, IZ SIBIRSKOGO OTDEL AK NAUK
SSSR, NO 11, 1958, PP 83-94.

NLL M. 3833

SCI - GEOPHYS

also

OCT 62

GB/259

214,770

8-5334

(NY-2836).

Prospects for the Chemical Industry in Eastern
Siberia, by S. I. Vol'fkovich, 14 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 12, Novosibirsk, 1958, pp 51-60.

JPRS-L-936-N

Sci - Chem
Sep 59

95, 556

Second General Conference of the Siberian
Branch of the Academy of Sciences USSR,
by A. K. Chernenko, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye
Otdeleniye, No 12, 1958, pp 93, 94.
9669412

FTD-TT-63-237

Sci-M/m
July 63

235,838

Stashkov, N. V. and Zelyanskii, A. I.
THE POLAROGRAPHIC DETERMINATION OF GER-
MANIUM. [1962] 14p. 14 refs.
Order from OTS or SLA \$1.60 62-16145

Trans. of Akad[emiya] Nauk SSSR, Sibirek[oe]
Otdel[enie]. Izv[estiya] 1959, no. 1, p. 59-66.

DESCRIPTORS: *Polarographic analysis, *Germanium,
Mercury electrodes, Sodium compounds, Acetates,
Borax.

The investigation of various inert electrolytes showed
that tetravalent germanium is reduced from many
solutions at the mercury-drop electrode, with forma-
tion of clearly shaped waves. The addition to the solu-
tions of trilon B improves the form of the germanium
wave. The applicability of the polarographic method of
determination of germanium in a base of sodium acetate
and borax to the analysis of practical samples is
shown. (Author)

62-16145

I. Stashkov, N. V.
II. Zelyanskii, A. I.

(Chemistry--Analytical, TI,
v. 8, no. 7)

Office of Technical Services

Melik-Stepanov, Yu. G. and Plaksin, N.
ON THE SELECTION OF A RATIONAL METHOD
FOR DRESSING TITANIUM-ZIRCONIUM ALLUVIAL
DEPOSITS OF WESTERN SIBERIA. [1960] 17p
Warren Spring Laboratory Trans. NT748: M1720.
Order from LC or SLA m\$2.40, ph\$.30 61-13056

Trans. of A[kademiya] N[auk] SSSR, Sibir[skoye]
Otdel[eniye] [iz]est[est] 1959, no. 3, p. 18-29.

The alluvial ores of Western Siberian deposits contain leucocoxene, ilmenite, rutile and zircon. The overall content of titanium dioxide in the sample was 3.4%, and zirconium dioxide 1.2%. In grain characteristics the sand is exceptionally fine, slightly kaolinised material, in which the valuable minerals are distributed extremely unevenly. Almost all the zircon is concentrated in the 0.074 - 0.30 mm size fraction, while the titanium minerals are found in the size range 0.3 - 0.030 mm. Preliminary dressing may be by either flotation or gravity. Finishing operations may be carried out by either of the following methods: (over)

61-13056

1. Ores--Processing
2. Titanium--Siberia
3. Zirconium--Siberia
1. Melik-Stepanov, Yu. G.
- II. Plaksin, N.
- III. DSIR NT-748
- IV. DSIR LLU M. 1720
- V. Department of Scientific and Industrial Research (Gr. Brit.)

148,697

Office of Technical Services

Mikhailov, M. A. and Vedernikova, T. I.
THE THERMAL HYDROLYSIS OF CALCIUM
FLUORIDE AND FLUORITE UNDER DYNAMIC
CONDITIONS WITH THE ADDITION OF SILICON
DIOXIDE. [1961] 14p.
Order from ATS \$19.85 ATS-69N54R

Trans. of Akad[emiya] Nauk SSSR. Sibir[skoe]
Otdel[enie] Zvest[ia] 1959, no. 3, p. 49-61.

DESCRIPTORS: Hydrolysis, *Calcium compounds,
Fluorides, *Fluorapat, *Silicon compounds, Dioxides

(Chemistry--Physical, TT, v. 6, no. 11)

61-25623

- I. Mikhailov, M. A.
- II. Vedernikova, T. I.
- III. ATS-69N54R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

28577

Office of Technical Services

17

(NY-3884).

In the Presidium of the Siberian Section of the
Academy of Sciences USSR, by V. A. Batishchev,
3 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 3, Novosibirsk, 1959, pp 133-~~3~~ 134.

JPRS 2651

Sci - Misc
Jun 60

117, 333

(NY-3001/4).

Obtaining Titanium Dioxide From the Product of
Reduction in Sodium Sulfate Smelting of Ilmenite
Concentrates, by A. K. Sharova, A. A.
Fotiyev, 22 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 4, 1959, pp 52-62/

JPRS-2037-N

104,322

USSR

Econ - Technological

Dec 59

RUSSIAN, per, Iz Sib Otdel Ak Nauk SSSR, No 5, 1959,
pp 114, 115.

JPRS SF-1273

USSR
Biog
Jan 61

Volkova, N. M. and Gaydukov, G. V.
SOME DATA CONCERNING THERMODYNAMIC
PROPERTIES OF POTASSIUM FLUOTITANATE. [1961]
[10]p.
Order from OTS or SLA \$1. 10

61-27805

Trans. of Akad[emiya] Nauk SSSR, Sibirskoe Otdel[enie].
Izv[estiya] 1959, no. 6, p. 70-77.

DESCRIPTORS: *Titanates, *Fluorides, *Potassium
compounds, Thermochemistry, Reagents, Metallurgy

The relationship between the heat content of potassium
fluotitanate and the temperature ranging from 298-
1098°K was determined in experiments. The equations es-
tablished for the relationship between the true molar
heat capacities and the temperature were based on the
change in heat content and calculated according to the
method by Landiya. Equations expressing the relation-
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-27805

I. Volkova, N. M.
II. Gaydukov, G. V.
III. Translations, New York

57372

Office of Technical Services

(NY-3001/5).

On the Selection of a Technological System for
Processing Nepheline Rock of the Uzhur Deposit in
Krasnoyarskiy Kray, by A. G. Bykova, Ye. I. Khazanov,
7 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR, No 6,
1959, pp 83-88.

JPRS-2267

109,367

USSR
Econ - Technological
Mar 60

BS Prog 17

(NY-3539).

In the Joint Scientific Councils of the Siberian
Department of the Academy of Sciences USSR, by
A. K. Chernenko, K. Ye. Mironov, 3 pp.

¹
RUSSIAN, per, Iz Sibirskogo Otdeleniya Ak Nauk SSSR,
No 7, Novosibirsk, 1959, pp 125, 127.

JPRS-2296

Sci - Misc
Mar 60

109,340

Device for Investigating Axially Symmetric
Electron Beams, by Yu. V. Troitskiy, V. I.
Vazhenin.

RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No 8, 1959, pp 17-20.

AID

SIB-3201

9048182

Sci - Electronics

May 60

115,628

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(NY-4157).

Current Status of the Problem Concerning the Use
of Substances for Individual Protection Against
Diptera and Ticks, by Ye. Kh. Zolotarev, 16 pp.

RUSSIAN, per. Iz Sibir Otdel Ak Nauk SSSR, No 9,
1959, pp 12-17.

JPRS 5115

Sci-Med

Aug 60

121, 626

23

(NY-3900)

Soviet-Chinese Scientific Investigations of the
Amur Basin, by N. N. Nekrasov, V. A. Shelest,
14 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 10, 1959, pp 5-14.

JPRS 2994

Sci - Misc

Aug 60

121,732

Crystallohydrates of Zirconium Tetrafluoride, by
Yu. Gagarinskiy, V. Mashirev.
RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 11, 1959, pp 50-526.
CSIRO/No 6635

Sci - Chem
Apr 64

254,590

BD-5-60

(DC-3545).

All-Union Conference on the Biophysics of
Erythrocytes, by V. Ye. Kusnetsov, 4 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 11, 1959, pp 103-104.

JPRS 3318

Sci - Med
Jun 60

117,220

BD-5-60

(DC-3545).

Scientific-Technical Conference on the Complex
Use and Reforestation of Cedar Forests, by
G. V. Krylov, Yu. P. Khlonov, 6 pp.

RUSSIAN, per, Iz Sibirskogo Otdel, Ak Nauk SSSR,
No 11, 1959, pp 105-107.

JPRS 3319

USSR
Econ - Agriculture
Jun 60

117,219

General Meeting of the Siberian Department Academy
of Sciences USSR, by A. K. Chernenko.

RUSSIAN, Per, Iz Ak Nauk SSSR, Sibirskoye Otdel,
No 11, 1959, pp 107-108.

JPRS 3320

Sci-Misc
May 63

n
Fundamentals of the Theory of Snowdrifting,
by A. K. Dyunin, 26 pp.

RUSSIAN, per, Iz Sibirskoye Otdel, Ak Nauk SSSR,
No 12, 1959, pp 11-24.

Amer Meteorol Soc X-R-291

170, 231

Sci - Geophys
Oct 61

16

(NY-3956)

Development of Sciences in the Siberian Branch of
the Academy of Sciences USSR, 25 pp.

RUSSIAN, per, Iz Sibirskogo Otdeleniya Ak Nauk SSSR,
No 1, Novosibirsk, 1960, pp 3-16.

JPRS 2880

LHU Tr BUL

Sci - Misc

Vol 2, No 11, 1960

Jul 60

FTD-IT-63-239

(9667775)

120,041

Choice of Tolerance Zone for the Pitch Dimensions,
and Determination of Rational Clearances Between
the Supporting Faces of the Teeth in Multiple-
Support Root Fastenings of Moving Turbine Blades,
by Ch. G. Mustafin, B. P. Sokolov.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 1, 1960, pp 41-55.

ELL M. 3583

Sci - engr

207,780

Jul 62

Heats of Formation of Niobium Oxides and
Carbides, by F. G. Kuzenko, P. V. Gel'd, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibir. Otdel,
No 2, 1960, pp 46-52.

AEC Tr-4362

Sci - Phys
May 61

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Bardamova, M. I.
COMPLEX FORMATION BETWEEN ORGANIC
HALOGEN COMPOUNDS AND OXYGEN-CONTAINING
ORGANIC SUBSTANCES. [1963] 5p.
Order from ATS \$8.00

ATS-79Q66R

Trans. of Akad[emiya] Nauk SSSR. Sibirsk[oe]
Otd[elenie]. [zv[estiya]] 1960, no. 2, p. 71-75.

DESCRIPTORS: *Organic halides, *Oxygen, *Organic
compounds, Halogens, Chemical reactions, Complex
compounds.

(Chemistry--Organic, TT, v. 9, no. 9)

63-12824

I. Bardamova, M. I.
II. ATS-79Q66R
III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-4025

Office of Technical Services

The Effect of the Quantity of Aluminum Chloride on the Ratio of the Velocity Constants in the Formation of Isopropyl-Benzenes, by E. P. Babin.

RUSSIAN, per, Akademiya Nauk SSSR, Sibirskoe Otdlenie. Izvestiya, No 3, 1960, pp 50-57.

NTC 72-10838-07C

Apr 72

(SF-1257/a)

News of the Siberian Department of the Academy of
Sciences USSR, by A. K. Chervenko, K. Ye. Mironov
6 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 3, 1960, pp 129-132.

JPRS 4271

Sci - Misc

Jan 61

136,923

(DC-4380)

In the Joint-Scientific Council for the Physico-
Mathematical and Technological Sciences, by
A. K. Chernenko, 4 pp.

RUSSIAN, per, Iz Sib Otdel Ak Nauk SSSR, No 3,
1960, pp 129-131.

JPRS 6229

Sci - Misc

Nov 60

131,475

BD 41/60

(SF-1257).

In the Joint Scientific Council on Chemical Sciences,
by K. Ye. Mironov,

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 3, 1960, pp 131-132.

*JPRS

Sci - Chemistry

21 Nov 60

18

(SF-1018)

Biological Research in Siberia, by N. G.
Kolomiyets, 7 pp.

RUSSIAN, per, Iz Sibir Otdel Ak Nauk SSSR, No 4,
1960, pp 132-135.

JPRS 4008

Sci - Bio

Sep 60

125,358

(DC-4782)

The Problem of Industrialization of the Angaro-
Pitskiy Iron Ore Basin, by A. I. Zubkov, 10 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 5, 1960, pp 13-19.

JPRS 6377

USSR
Econ
Dec 60

135, 845

(NY-6355/1)

Contemporary Progress and the Distribution
of the Productive Forces of Siberia and the
Far East -- The Embodiment of Leninist
Ideas, by N. N. Nekrasov, 23 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk
SSSR, No 6, 1960, pp 1-16.

3

JPRS 9892

165,431

FE - China
Econ
Sep 61

Mechanism of the Solvation of Ions, by V. A.
Mikhailov, S. I. Drakin, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye
Otdelenie, No 6, 1960, pp 44-52.

ATS-50P64R

ATS-65-3715

Sci

Apr 63

Mechanism of the Solvation of Ions, by V. A.
Mikhailov, S. I. Drakin, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye
Otdelenie, No 6, 1960, pp 44-52.

ATB-50864R

Sci

326 862

Apr 63

(NY-6355/2)

Rapid Method for the Determination of Antimony
in the Presence of Arsenic, by G. N. Pavlinova,
11 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 6, 1960, pp 53-58.

JPRS 9661

Sci - Chem
Aug 61

163,078

(NY-6355/3)

The Distribution of the Rare-Earth E Elements
in the Hydrolysis of Alloys of Their Oxides
With Ammonium Thiocyanate, by V. K. Val'tsev,
Ye. D. Oziashvili, 10 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk
SSSR, No 6, 1960, pp 59-64.

JPRS 10041 167,787

Sci - Chem
Sep 61

(NY-6355)

Book Review: Topics of Scientific Research Works
in Siberia and the Far East, 1959-65, Social
Sciences, by V. D. Kudryatsev, 8 pp.

RUSSIAN, per, Izvest Sibirskogo Otdel Ak Nauk
SSSR, No 6, 1960, pp 124-126.

JPRS 10060

171, 117

USSR

Soc

(8F-1593)

Vladimir Nikolayevich Sukachov, by S. A. Il'yinskaya,
V. N. Smagin, 6 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 6, 1960, pp 128-131.

JPRS 4500

USSR

Balog.

Apr 61

147,143

Mixed Thallium Chalcogenides. III., by
S. S. Batsanov, I. Kh. Petrova, 4 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk
SSSR, No 7, 1960, pp 121-123.

MOF B-180
9092623

OTS-61-12891 171, 279

Sci

Oct 61

BD 8/61

(SF-1801).

New Additions to the Membership of the Siberian
Department of the Academy of Sciences USSR,

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR, No 8,
1960, pp 153-154.

*JPRS

Sci - Misc

21 Apr 61

The Behavior of Sodium Sulfite in the Reduction
Process of Sodium Sulfate by Coal, by A. A.
Fotiyev, 6 pp.

RUSSIAN, per, Investiya Sibirskogo Otdeleniya
Akademi Nauk SSSR, No 9, 1960, pp 107-112.

F011180467

AEC A1 Tr-230

326,465

Sci - Materials
June 67

Plankton in the Irkutsk Water Reservoir During
Its First Year of Operation, by G. L.
Vasil'yeva, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye
Otdel, Vol X, 1960, pp 103-111.

CSIRO

Sci - Geophys
Jul 62

207, 450

Mechanism of Oxidation by Ultrasound, by
M. S. Levinson, B. G. Kovrov, 6 pp.

RUSSIAN, per, In Sibirskogo Otdel Ak Nauk SSSR,
No 12, pp 67-68, 1960.

AMS Journal
Vol 32, No 5

Sci - *Phys*
Jun 62

198,622

(SF-1688)

Activities of the Siberian Branch of the USSR Academy
of Sciences, by A. K. Chernenko, 5 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 12, 1960, pp 135-137.

JPRS 4547

Sci - Misc.

May 61

152,659

ED 12/61

(OC-5909).

Discussion of Ecological Problems in the Biological
Institute of the Siberian Department, AS USSR, by
G. M. Krivoshechekov,

RUSSIAN, per, Iz Sibirskogo Otdel AN SSSR, ~~XXI~~ No 12,
1960, p 137.

*JPRS

Sci - Biol

27 Apr 61

Wear Resistance of Iron and Steel Improved by
Electrolytic Sulfurizing, by S. S. Chernyak,
et al.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk ESSR,
No 1, 1961, pp 25-30.

HB 5153

Sci

Aug 61

163,183

Stashkova, N. V. and Zelyanskaya, A. I.
ON THE REDUCTION MECHANISM OF TETRAVA-
LENT GERMANIUM AT THE MERCURY DROP
ELECTRODE. [1962] 19p. 10 refs.
Order from OTS or SLA \$1.60

62-18620

Trans. of A[kademiya] N[auk] SSSR. Sibir[skoe]
Odel[enie]. [Izv[estiya]] 1961, no. 1, p. 72-81.

DESCRIPTORS: *Germanium, Reduction, Electrodes,
Mercury, Electrochemistry.

By the method of polarographic coulometry it is
established that the reduction of tetravalent germanium
at the mercury drop electrode takes place with the par-
ticipation of four electrons. Anode-cathode waves of
germanium were obtained with the amalgam drop elec-
trode and the dependence of the reduced exchange cur-
rent and reversible half-wave potential on germanium
concentration and hydrogen ion concentration in the solu-
(Chemistry--Physical, TT, v. 9, no. 8) (over)

62-18620

I. Stashkova, N. V.
II. Zelyanskaya, A. I.

Office of Technical Services

bd-35/61

(SF-1913)

Symposium on Certain Problems of Mathematics
and Mechanics, by A. K. Chermenko,

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk USSR,
No 1, 1961, pp 123-124.

*JPRS 4929

Sci - Math

11 Jul 61

(SF-1913/a)

Conference on Problems of Geobotanical Cartography,
by Ye. I. Lapshina, 6 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR, No 1,
1961, pp 124-126.

JPRS 4929

Sci - Biology

168,956

Sep 61

Batsanov, S. S., Mazalov, L. N., and Chirkov, V. I.
CALCULATION OF THE REFRACTION OF IONS OF
"NON-NOBLE" GASES (Raschet Refraktsii "Neblago-
rodnogazovykh" ionov). [1962] [20]p. (foreign text in-
cluded) 23 refs.

Order from OTS or SLA \$1.60

62-14575

Trans. of Akademiya Nauk SSSR, Sibirskoe Otdelenie.
Izvestiya, 1961, no. 2, p. 121-125.

DESCRIPTORS: *Gases, *Ions, *Refraction, *Electrons,
Polarization, *Perturbation theory, Special functions

The assumption was expressed that the screening con-
stants for the 3d- and 4d-electron shells calculated by
the Slater rules are overestimated by the value of the
outer screening. Using this assumption, the ionic re-
fractions of all elements of the "b" subgroups calculated
by a method of the perturbation theory were in good
agreement with the experiment. For the first time
(Physics, TT, v. 8, no. 6) (over)

62-14575

I. Batsanov, S. S.
II. Mazalov, L. N.
III. Chirkov, V. I.

Office of Technical Services

Separation of Boric Acid From XX Mixtures
Containing Magnesium Sulphate by the Ion
Displacement Method, by A. H. Popov,
Yu. S. Kononov.

RUSSIAN, per, Yz Siber Otdel Ak Nauk
SSSR, No 3, 1961, pp 61-67.

NLL/RTS 1997

Sci - Chem

Apr 62

193,822

(SP-1878)

A Symposium on the Problem of the Siberian
Silkworm, by M. G. Kolomiyets, A. B.
Gukasyan, 4 pp.

RUSSIAN, per, Iz Sibirskogo Otdel
Ak Nauk SSSR, No 3, 1961, pp 113-114.

JPRS 13033

Sci - Misc
Mar 62

189,483

(SF-1954)

Scientific Meetings and Conferences, 7 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 4, 1961, pp 116-122.

JPRS 10769

5-1 1049-

174, 776

Sci - Misc.

Dec 61

APR 1960

(SF-1070)

MEETING OF N. S. KHRUSHCHEV WITH SCIENTISTS OF
THE SIBERIAN DEPARTMENT OF THE ACADEMY OF SCIENCES
OF THE USSR, 4 PP.

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NO 5, 1961, XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

JPRS 13105

SCI - MISC
MAR 62

180,767

Domain Structure of Thin Ferromagnetic Films,
by L. V. Kirenskiy, V. A. Buravikhin, S. V. Kan.

RUSSIAN, per, Iz Sibir Otdel Ak Nauk SSSR,
No 5, 1961, pp 3-9. 9688310

NASA TT F-8111

Sci

OTS 62-10642

6 Mar 62

185, 912

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Timberline Dynamics in the Southern Sikhote
Alin Mountains, by M. V. Ponomarenko, 11 pp.
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No 5, 1961, pp 100-109.
CFSTI TT 67-51312

Sci/Agri
Jul 68

361,143

On the Distribution of Ions in the Plasma of an Arc
Discharge, by M. N. Turko, 14 pp.

RUSSIAN, per, Iz Sibirskogo Otdeleniya Ak
Nauk SSSR, No 6, 1961, pp 14-22. 9667360

FTD-TT-62-1225

Sci - Phys
Jan 63

219,964

The Moduli of Elasticity of Pyrite, by
K. S. Aleksandrov. 8 pp.
RUSSIAN, per, Izv. Sibirsk. Otd. Akad. Nauk SSSR,
No 6, 1961, pp 43-47.
NASA TT-F-13406

July 71

(DC-6615)

Producing Virulent Bacteria to Control the
Water Vole (*Arvicola Terrestria* L.), by
V. I. Poltev, I. N. Gritsenko, 18 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 6, 1961, pp 99-105.

JPRS 13204

Sci - Med
Apr 62

190,613

(SF-1878)

SCIENTIFIC REPORT ON THE DEVELOPMENT OF TRANS-
PORTATION IN IRKUTSKAYA OBLAST, BY A. ~~XBB~~
VOROBYEV, 3 PP.

RUSSIAN, PER, IZ SIBIR OTDEL AK NAUK SSSR,
NO 6, 1961, PP 131, 132.

JPRS 13608

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MAY 62

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No 7, 1961, pp 126-129.

JPRS 12661

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Feb 62

185, 843

(CSO: 1878-N)

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Department of the Academy of Sciences USSR - to
Agriculture, by Ye. P. Ozhigov, 5 pp.

RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademi Nauk SSSR, No 8, 1961, pp 137-139.

JPRS: 15,204

Sci - Biology
Sep 62

210,986

~~XXXXXXXX~~ DETERMINATION OF TRANSITION PROCESSES IN
CONTINUOUS- ACTION HEAT EXCHANGERS, BY B. N. DEYATOV,
X YU. N. KORNEV, LO PP.

RUSSIAN, PER, ~~IZ SIBIRSKOGO OTDEL AK NAUK SSSR,~~
NO 9, 1961, PP 21-27. 9678210

FTD-TT-62-691

SCI - ENGR

11 OCT 62

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(DC-6467)

First Scientific Conference of the Social Sci-
entific Research Institute at Gorno-Altaysk, by
V. S. Belousova, 5 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 9, 1961, pp 128-130.

by Belousova
20. 10. 1962
Sci - Misc
Jan 62

JPRS 12033

JPRS 14110

181, 248

THE SIBERIAN DEPARTMENT OF THE ACADEMY OF SCIENCES
USSR ON ~~XX~~ THE EVE OF THE 22ND CPSU CONGRESS, 8 PP.

RUSSIAN, PER, IZVESTIYA SIBIRSKOGO OTDELENIYA
AKADEMII NAUK SSSR, NO 10, 1961, PP 3-9.

JPRS 20091

SCI - MISC
JUL 63

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Distribution of Ammonia in the Soil and Its Effect
on Plant Growth, by I. N. Rynak, 6 pp.
RUSSIAN, per, Iz Sibir Otdel Akad Nauk SSSR, No 10,
1961, pp 137-141.
JPRS 24776

Sci-Biol
Jun 64

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HEAT EXCHANGE IN THREE-COMPONENT FLOW.
Oct 62 [5]p. 17 refs.
Order from ICE in v. 2, no. 4, \$15.00/year

Trans. of Akad[emiya] Nauk SSSR, Sibirskoe
Otdel[enie] [Izvestiya] 1961, no. 11, p. 4011.

DESCRIPTORS: *Fluidized solids, *Heat transfer, Mass
transfer, Fluid flow, Carbon, Coke, *Chemical
engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12330

I. Plotukh, Yu. N.
II. Shabanov, S. I.
III. International Chemical
Engineering, New York

Office of Technical Services

New Apparatus to Study the Kinematics of Moving
Objects, by V. K. Morgunov, 11 pp.

RUSSIAN, per, ~~Iz Sibirskogo Otdel, Ak Nauk SSSR,~~
No 12, 1961, pp 30-36. 9683120

FTD-TT-62-1684

Sci-Engr
Jun 63

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On the Dynamics of the Upper Limits of the
Forest in Mountains of the Southern Sikhote-
alin Range, by M. V. Ponomarenko,
RUSSIAN, per, Izvestiya Sibirskoe Otdel.
Akad. Nauk SSSR, Vol V, 1961, pp 100-109.
*CIST TT 67-51312

Sci-Agri
Dec 66

S-361/62

The Addition of Ethyl Mercaptan to Certain Vinyl
Esters of Chlorophenols, by A. V. Kalabina, N. A.
Tyukavkina. (NY-7160)

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR, No 1,
1962, pp 97-101.

*JPRS

Sci - Chem

Jul 62

(SF-1878)

THE FIRST SCIENTIFIC CONFERENCE OF YOUNG
SCIENTISTS OF THE INSTITUTE OF EXPERIMENTAL
BIOLOGY AND MEDICINE SIBERIAN BRANCH OF THE
ACADEMY OF SCIENCES USSR, BY V. V. MELEKHOV,
V. YU. OSTROVSKIY, V. S. SERGIYEVSKIY, 4 PP.

RUSSIAN, PER, IZ SIBIRSKOGO OTDEL AK NAUK SSSR,
NO 1, 1962, PP 111-113.

JPRS 14715

SCI - BIOL

AUG 62

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(DC-6864)

Obtaining Fused Granulated Ores From
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Zhdanovich, T. N. Komarova, 16 pp.

RUSSIAN, per, Iz Sibirakogo Otdel Ak Nauk
SSSR, No 2, 1962, pp 37-42.

SEE JPRS 14166

Sci - Min/Met
Jun 62

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R-196/62

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Concentrates, by L. N. Zhdankovich, T. N. Komarova
(DC-6864)

RUSSIAN, per, ~~Izvestiya~~ Sibirskogo Otdeleniya
~~Akademiya~~ Nauk SSSR, No 2, February 1962

*JPRS

USSR

Econ, Techn. - Ferrous Metallurgy

June 62

Hydrolysis of Uranyl in Nitrate Solutions,
by N. M. Nikolayeva, V. I. Paramonova.
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Akad Nauk SSSR, No 3, pp 10-19, 1962
AEC ORNL-TY-417 9229826

Sci-Chem
Nov 65

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On Natural Radioactive Elements in Plants, by
A. L. Kovalevskiy, 17 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 4, 1962, pp108-114.

JPRS 15274

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Sci - Biol

Oct 62

MATHEMATICAL PROBLEMS OF MODERN CYBERNETICS, BY
S. L. SOBOLEV, A. A. LYAPUNOV, 14 PP.

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NO 5, 1962, PP 3-13.

JPRS 16008

SCI - MATH

NOV 62

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THE APPLICATION OF BURMAN-LAGRANGE SERIES
IN THE ANALYSIS OF TRANSITION PROCESSES IN
CHEMICAL ENGINEERING EQUIPMENT. Jan 63 [9]p.
11 refs.

Order from ICE in v. 3, no. 1, \$15.00/year

Trans. of Akademiya Nauk SSSR. Sibirskoe
Otdelenie. Izvestiya 1962, no. 5, p. 141.

DESCRIPTORS: *Towers (Chemistry), Heat transfer,
Diffusion, Functions, *Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12677

- I. Devyatov, B. N.
- II. Kornev, Yu. N.
- III. International Chemical
Engineering, New York

Office of Technical Services

63-10736

Stromberg, A. G.
INFLUENCE OF: ELECTROLYSIS TIME, OF THE
VOLUME OF THE SOLUTION, AND OF THE
RADIUS OF THE MERCURY DROP ON THE HEIGHT
OF THE ANODIC PEAK IN AMALGAM POLAROG-
RAPHY. [1962] 8p. 12 refs.
Order from OTS or SLA \$1.10 63-10736

Trans. of Akademiya Nauk SSSR, Sibirskoe
Otdelenie, Izvestiya, 1962, no. 5, p. 76-80.

DESCRIPTORS: *Polarographic analysis, *Electrolysis,
Volume, Solutions, *Mercury, Time, Anodes (Elec-
trolytic cell), Ions, Quantitative analysis.

The aim of the present investigation is a quantitative
interpretation of the experimental facts related to the
influence of the electrolysis time (t), the volume of the
solution (V_l), and the radius of the mercury drop (r) on
(Chemistry--Analytical, TT, v. 9, no. 12) (over)

1. Stromberg, A. G.

Office of Technical Services

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INDUSTRIAL SEPARATION OF METALS IN COLUMNS
BY EXCHANGE EXTRACTION. Jan 63 [6]p. 7 refs.
Order from ICE in v. 3, no. 1, \$15.00/year

Trans. of A[kademiya] N[auk] SSSR. Sibirskoe Otdel-
enie. Izvestiya, 1962, no. 6, p. 46ff.

DESCRIPTORS: *Metals, Separation, *Towers (Chemis-
try) Exchange reactions, Fatty acids, Carboxylic acids,
Soaps, Hydrochloric acid, *Nickel, *Cobalt, Sodium
compounds, Chlorides, Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12692

- I. Bobikov, P. I.
- II. Gindin, L. M.
- III. International Chemical
Engineering, New York

Office of Technical Services

Temperature Dependence of Magnetostriction and
Coefficient of Linear Expansion of Elinvar, by
A. Ya. Vlasov, B. A. Ayurzanayn, 7 pp.

RUSSIAN, per, ^{Siber} Iz ~~Aibir~~ Otdel Ak Nauk SSSR,
No 6, 1962, pp 99-102. 9680345

FTD-TT-63-7

Sci-Phys
Apr 63

227,054

Bandman, O. L.

CONDITIONS FOR THE PHYSICAL PRACTICABILITY
OF ADMITTANCE MATRICES OF RC NETWORKS
(Priznaki Fizicheskoi Osushchestvivosti Matrits
Provodimosti Yas-Tsepei). [1963] [34p] (foreign text
included) 7refs

Order from OTS or SLA \$3.60

63-18702

Trans. of Akademiya Nauk SSSR, Sibirskoe Otdelenie.
Izvestiya, 1962, no. 8, p. 27-39

DESCRIPTORS: *Electrical networks, Synthesis,
*Matrix algebra, *Transformations (Mathematics),
*Admittance, Circuits, Electrical impedance.

Topics include: coordinate transformation matrix;
coupling (cut-set) matrices; necessary conditions for
the physical realizability of admittance matrices;
sufficient conditions for the physical practicability of
admittance matrices; conditions of physical realiz-
(Engineering--Electrical, TT, v. 10, no. 11) (over)

63-18702

I. Bandman, O. L.

Office of Technical Services

EXPERIMENTAL PHYSIOLOGICAL AND HISTOCHEMICAL
STUDY OF THE ADAPTATION OF INTESTINAL TRANS-
PLANTS INCORPORATED IN THE URINARY SYSTEM,
BY S. Z. FRADKIN, 20 PP.

RUSSIAN, PER, IZVESTIYA SIBIRSKOGO OTDELENIYA
~~AK~~ AKADEMII NAUK SSSR, NO 8, 1962, PP 103-109.

JPRS 17349

SCI - MED

JAN 63

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The Charge on Atoms in Ferrocene and its
Analog, by S. S. Batsanov. 7 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye
Otdeleniye, No 8, 1962, pp 110-113.
AIR/FID/III-23-248-68

Sci/Physics
Feb 69

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Borshchevskii, Yu. T.
VELOCITY PULSATIONS IN TWO-PHASE STREAMS.
Apr 63, 5p. 6 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of A[kademiya] Nauk SSSR, Sibirskoe
Otdeleniye, Izvestiya, 1962, no. 9, p. 1377.

DESCRIPTORS: Chemical engineering, Velocity, *Fluid
flow, *Phase studies, Mass transfer, Turbulence,
Diffusion.

(Mechanics--Hydrodynamics, TT, v. 10, no. 3)

63-17515

1. Title: Velocity pulsations
1. Borshchevskii, Yu. T.
- II. International Chemical
Engineering, New York

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POWERFUL AC ELECTRIC POWER TRANSMISSION LINES
FRO DISTANCES OF 1,500-3,000 KM, BY
V. K. SHCHERBAKOV, 14 PP.

RUSSIAN, PER, IZ SIBIRSKOGO OTDELENIYA AK
NAUK SSSR, NO 10, 1962, PP 51-59.

JPRS 17873

SCI - ELECTRICITY

MAR 63

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RADIATION AS ONE OF THE POSSIBLE CAUSES OF
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RUSSIAN, PER, IZ SIBIR OTDEL AK NAUK SSSR,
NO 10, 1962, PP 125-138.

JPRS 19131

SCI-BIOL & MED SCI
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Popova, N. I. and Mil'man, F. A.
KINETICS OF THE OXIDATION OF ISOBUTYLENE
OVER COPPER CATALYSTS. [1963] [13]p. 11 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-337
subsequent copies \$0.75/ca.

Trans. of Akademiya Nauk SSSR Sibirsk[oe]
Otdeleniye]. Vestnik 1962, no. 11, p. 59-65.

DESCRIPTORS: *Butenes, Oxidation, Reaction kinetics,
*Copper catalysts, Methyl radicals, *Acroleins,
Synthesis (Chemistry), Carbon dioxide.

(Chemistry--Physical, TT, v. 10, no. 8)

63-17991

1. Title: Methacrolein
2. Title: 2-Methyl propene
- I. Popova, N. I.
- II. Mil'man, F. A.
- III. CTS(Chem)-337
- IV. Chemical Translating
Service, Palo Alto,
Calif.

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Relationship Between Chemical Composition and
Physiological Effect of Bile Agents by
A. S. Saratikov.

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Otdalenie, No 11, 1962, pp 95-108.
OTS TT-64-18979

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6 PP.

RUSSIAN, PER, IZVEST SIBIRSKOGO OTDEL AKAD
NAUK SSSR, NO 11, 1962, PP 157-159.

JPRS 20435

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AUG 63

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EFFECT OF ENVIRONMENTAL CONDITIONS ON THE
HERITABILITY OF CHARACTERISTICS, BY G. A. STAKAN,
A. A. SOSKIN, 7 PP.

RUSSIAN, PER, IZ SIBIR OTDEL AK NAUK SSSR, NO 12,
1962, PP 145-148.

JPRS 19241

SCI - BIOL/MED SCI

MAY 63

231,140